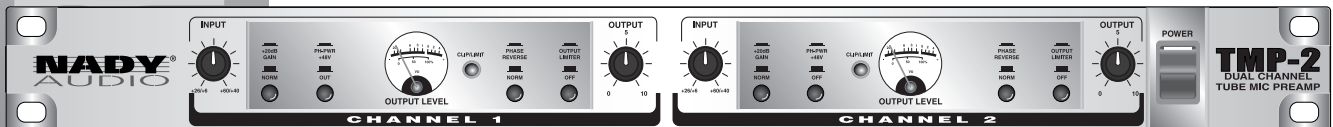


NADY[®] AUDIO

OWNER'S MANUAL



MIC PREAMP

TMP-2

DUAL CHANNEL TUBE MIC PREAMPLIFIER

TMP-2

Dual Channel Tube Microphone PreAmplifier



Congratulations on your choice of tube mic preamps — you have purchased one of the finest tube mics on the market today. This unit was developed using the expertise of professional sound engineers and working musicians. You will find that your new NADY AUDIO TMP-2 has superior performance and greater flexibility than any other tube mic preamps in its price range. Please read this manual carefully to get the most out of your new unit.

Thanks for selecting NADY AUDIO as your choice in tube mic preamps.

FEATURES

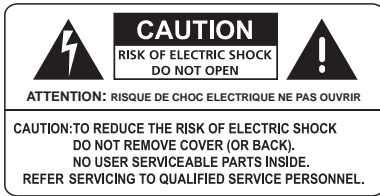
Professional feature-packed tube microphone preamplifier, in a single space rack (1RU) housing. The TMP-2 is the perfect tool for a host of recording applications, including use as either a microphone preamp or an instrument direct box for electric guitars, bass guitars, keyboard, synthesizer or acoustic instruments. The TMP-2 consists of two independent.

- Hand selected 12AX7A vacuum tube circuitry provides a big, warm sound for microphones and instruments that will perfectly fill out your sound for recording
- Selectable output limiter circuitry to avoid clipping and protect connected equipment such as processors
- Convenient analog VU meter allows excellent control of desired signal levels and also monitors the limiter function when the limiter is activated
- Variable Input and Output Gain Controls with over 60 dB of available gain
- +48VDC Phantom Power Switch
- Phase Reversal Switch
- Servo-balanced XLR and unbalanced 1/4" TS Inputs and Outputs
- Rugged construction for maximum long term reliability
- Shielded internal dual regulated power supply with ~115V(60Hz)/~230V(50Hz) select switch and fused IEC power cord connector

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WARNING



An equilateral triangle enclosing a lightning flash/arrowhead symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure which may be of sufficient magnitude to constitute a risk of electric shock.



An equilateral triangle enclosing an exclamation point is intended to alert the user to the presence of important operating and service instructions in the literature enclosed with this unit.

IMPORTANT SAFETY INSTRUCTIONS

When using this electronic device, basic precautions should always be taken, including the following:

1. Read all instructions before using the product.
2. Do not use this product near water (e.g., near a bathtub, washbowl, kitchen sink, in a wet basement, or near a swimming pool, etc.).
3. This product should be used only with a cart or stand that will keep it level and stable and prevent wobbling.
4. This product, in combination with headphones or speakers, may be capable of producing sound levels that could cause permanent hearing loss. Do not operate for a long period of time at a high volume level or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should consult an audiologist.
5. The product should be positioned so that proper ventilation is maintained.
6. The product should be located away from heat sources such as radiators, heat vents, or other devices (including amplifiers) that produce heat.
7. The product should be connected to a power supply only of the type described in the operating instructions or as marked on the product. Replace the fuse only with one of the specified type, size, and correct rating.
8. The power supply cord should: (1) be undamaged, (2) never share an outlet or extension cord with other devices so that the outlet's or extension cord's power rating is exceeded, and (3) never be left plugged into the outlet when not being used for a long period of time.
9. Care should be taken so that objects do not fall into, and liquids are not spilled through, the enclosure's openings.
10. The product should be serviced by qualified service personnel if:
 - A. The power supply cord or the plug has been damaged.
 - B. Objects have fallen into, or liquid has been spilled onto the product.
 - C. The product has been exposed to rain.
 - D. The product does not appear to operate normally or exhibits a marked change in performance.
 - E. The product has been dropped, or the enclosure damaged.
11. Do not attempt to service the product beyond what is described in the user maintenance instructions. All other servicing should be referred to qualified service personnel.

INSTALLATION

To ensure years of enjoyment from your NADY AUDIO TMP-2 please read and understand this manual thoroughly before using the unit.

INSPECTION

Your TMP-2 was carefully packed at the factory in packaging designed to protect the units in shipment. Before installing and using your unit, carefully examine the packaging and all contents for any signs of physical damage that may have occurred in transit.

(Note: Nady Systems is not responsible for shipping damage. If the unit is damaged, do not return to us, but notify your dealer and the shipping company immediately to make a claim. Such claims must be made by the consignee in a timely manner.)

CONTENTS:

- Instruction manual
- TMP-2 (verify that the unit's serial number is same as shown on shipping carton)
- AC Power cord
- Warranty Card

RACK MOUNTING

The TMP-2 fits into one standard 19" rack unit of space (1 3/4"). Parts of the unit can become very warm during use. This is normal during operation. Care should be taken to ensure that there is enough space around the unit for cooling (at least 12" or 30cm). Do not place the TMP-2 on high temperature devices such as power amplifiers, etc., or the unit may overheat in operation. Also, do not place the unit on speakers as this may cause them to move and/or fall due to speaker vibrations.

Although the unit's chassis is shielded against radio frequency (RF) and electromagnetic interference (EMI), extremely high fields of RF and EMI should be avoided.

POWER CONNECTION

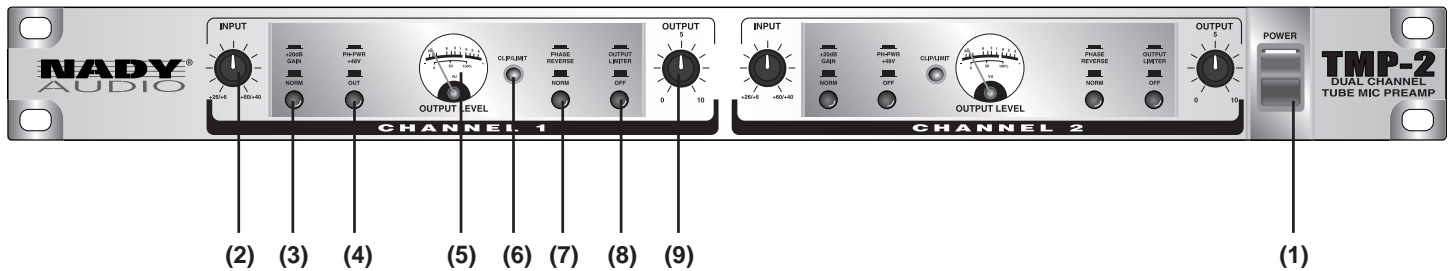
The TMP-2 has an internal power supply and is designed to operate from an external AC source. Power requirements for electrical equipment differ from area to area. Be sure to confirm that the voltage selected by the voltage selector switch on the back panel is proper for your area (120VAC/60 Hz or 230VAC/50Hz) per the information below:

Europe (except UK): 230V, 50Hz
UK and Australia: 240V, 50Hz
USA and Canada: 120V, 60 Hz
For other areas, please check with local authorities.

When ready to operate, plug the AC cord into the power source. Make sure that the unit is turned off before connecting to the AC power source to avoid possible loud transients which can damage your speakers or your ears, especially when monitoring with headphones.

CONTROLS AND CONNECTORS

FRONT PANEL



Front Panel

(1) POWER SWITCH

Use this switch to power unit ON or OFF. The integrated LED will light when the unit is ON. Before turning on this unit, verify connection to the proper voltage AC source, check all connections and turn down the level controls of equipment connected to the outputs.

(Note: The TMP-2 will not output audio for approximately 16 seconds after power up due to the time it takes for the tubes to warm up. Do not turn up the audio until after this warm up period to avoid possibly damaging speakers or your hearing due to improper level settings.)

(2) INPUT CONTROL

The **INPUT CONTROL** sets the amount of input gain of the TMP-2, turn the control clockwise to increase gain and counterclockwise to decrease gain. You may control two ranges of gain with this control, +26 to +60dB and +6 to +40dB. Selection of the gain range is made with the **+20dB GAIN SWITCH (3)**

(3) +20dB GAIN/NORM SWITCH

Use the **+20dB GAIN/NORM** switch to set the gain range of the **INPUT CONTROL (2)**. When the switch is out, the TMP-2 operates in Normal mode, depressing the switch adds 20dBs of gain. For microphone applications, where more level is needed, push the switch in.

(4) PHANTOM POWER SWITCH

Use the **PHANTOM POWER** to supply power to all microphones requiring +48V phantom power. The TMP-2 phantom power is engaged and disengaged with this switch Phantom power is applied to pins 2 and 3 of the **XLR INPUT (13)** jacks when this switch is pushed in. To disengage phantom power, position the switch in the out position.

(5) OUTPUT LEVEL VU METER

The output level of the TMP-2 can be monitored using the analog **OUTPUT LEVEL VU METER**. The meter's 0dB marking represents +12dB at the XLR output and +6dBu at the 1/4" output. The output meter will also reflect any attenuation due to the output limiter when it is engaged.

(6) CLIP/LIMIT LED

The **CLIP/LIMIT LED** lights green when the unit is powered. The LED also functions as a clipping and limiting indicator. The LED lights red when the audio signal reaches 6dB below hard clipping. If the **OUTPUT LIMITER SWITCH (8)** is depressed, the LED will light red when the limiter engages at which point the gain will be reduced automatically to avoid clipping.

(7) PHASE REVERSE / NORM SWITCH

When the switch is in the Out position of the output signal is normal. Depressing the switch reverses the phases of the output signal. In multi-microphone applications, mic placement can affect the phase of the signals. If your sound is "thin" or "out of position", reverse the phase to correct the problem.

(8) OUTPUT LIMITER SWITCH

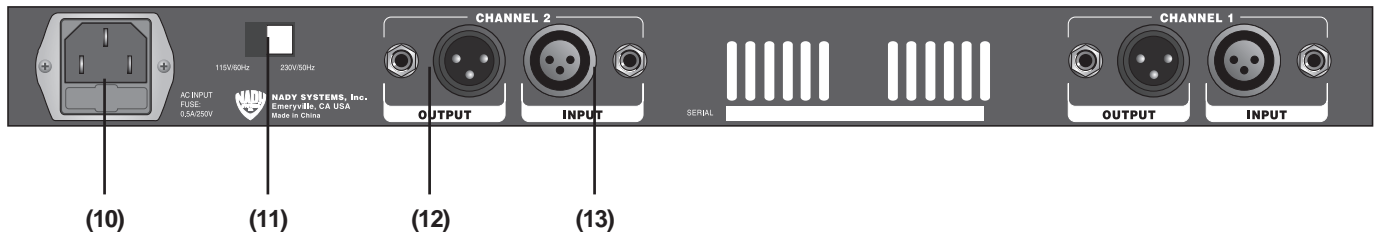
When this switch is depressed the output level is limited to 0dB for the 1/4 output and +6dB for the XLR output. This is specially designed to prevent clipping of the audio waveform. This also reduces the possibility of overload to any units connected to the outputs of the TMP-2.

(9) OUTPUT CONTROL

The **OUTPUT CONTROL** sets the output level of the TMP-2. When the control is fully counterclockwise the output level of the TMP-2 is zero. Turning the control clockwise increases the level of the output to a maximum of +10dB of gain. This gain is in addition to the existing input gain.

CONTROLS AND CONNECTORS

REAR PANEL



Rear Panel

(10) AC POWER CORD IEC CONNECTOR WITH INTEGRATED FUSE HOLDER

This standard IEC power cord receptacle is used to connect the AC power to your unit. It features a built-in fuse holder for a 5X20mm, 0.5A/250V slow-blow fuse. If the fuse continuously blows, shut off the unit and have it serviced by qualified service personnel.

(11) AC VOLTAGE SELECT SWITCH

Before plugging in the power cord, check to see that the unit is set for the proper voltage for your area: ~115V (60Hz) or ~230V (50Hz).

(Note: Use at the improper voltage can damage your unit and void the warranty.)

(12) OUTPUTS

Unbalanced 1/4" (6.3mm) and balanced XLR outputs

(Note: Only one output (1/4" or XLR) can be used at one time. Do not connect to both at the same time, or the signal will be severely distorted.)

(13) INPUTS

Unbalanced 1/4"(6.3mm) and balanced XLR inputs.

(Note: Only one input per each channel (1/4" or XLR) can be used at one time. Do not connect to both at the same time or the signal will be severely distorted.)

SPECIFICATIONS

Input Impedance:	500K Ω (1/4" balanced), 2.2K Ω (XLR balanced)
Output Impedance:	360 Ω (XLR and 1/4" balanced)
Max Gain:	43dB
Max Input Level:	+8dBu
Max Output Level:	+18dBu
Frequency Response:	10Hz-100KHz +/-3dB
Total Harmonic Distortion (THD) + Noise:	0.4%
S/N Ratio:	-94dB
Noise Floor:	40uV
Phantom Power:	48VDC
Indicators:	PHANTOM POWER, CLIP/LIMIT, POWER, ANALOG VU METER
Input/Output Jacks (Both channels):	XLR balanced, 1/4" TRS balanced/unbalanced
Fuse Requirements, Type and Size:	0.5A 5x20mm glass tube
Dimensions:	19" x 1.75" x 6" (483 x 44 x 162mm)
Weight:	4.6 lbs. (2.09 Kg)

The specifications above are correct at the time of printing of this manual. For improvement purposes, all specifications for this unit, including design and appearance, are subject to change without prior notice.

LEGAL INFORMATION

NOTICE

The information in this document is subject to change, as the Company may make changes to product in order to improve reliability, design, or function, without prior written notice. No part of this manual may be reproduced or transmitted in any form or by any means without the written permission of the company.

IN NO EVENT WILL THE COMPANY BE LIABLE FOR SPECIAL INCIDENTAL OR CONSEQUENTIAL DAMAGES, WHETHER ARISING DIRECTLY OR INDIRECTLY, SUCH AS LOSS OF PROFIT OR GOOD WILL, THAT MAY BE SUFFERED IN CONNECTION WITH THE PURCHASE OF THIS PRODUCT OR FROM THE BREACH OF ANY REPRESENTATION OR WARRANTY.

LICENSE

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SERVICE FOR YOUR NADY AUDIO PRODUCT

(U.S.) Should your NADY AUDIO product require service, please contact the Nady Service Department via telephone at (510) 652-2411, or e-mail at service@nady.com.

(International) For service, please contact the NADY AUDIO distributor in your country through the dealer from whom you purchased this product.

DO NOT ATTEMPT TO SERVICE THIS UNIT
YOURSELF AS IT CAN BE DANGEROUS AND
WILL ALSO VOID THE WARRANTY.



NADY SYSTEMS, INC. • 6701 SHELLMOUND STREET, EMERYVILLE, CA 94608
Tel: 510.652.2411 • Fax: 510.652.5075 • www.nady.com